(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 9 June 2005 (09.06.2005)

PCT

(10) International Publication Number WO 2005/051722 A1

(51) International Patent Classification7:

B60R 13/02

(74) Agent: ANDERSON, Scott, D.; Foley & Lardner, 777

(21) International Application Number:

PCT/US2003/033859

(22) International Filing Date: 27 October 2003 (27.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): JOHN-SON CONTROLS TECHNOLOGY COMPANY [US/US]; 650 Waverly, Holland, MI 49423 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SMITH, Nels, R. [US/US]; 10230 Springwood Drive, Zeeland, MI 49464 (US). SCHICHTEL, James, D. [US/US]; 14642 Indian Trails Drive, Grand Haven, MI 49417 (US). BAUMANN, Chad [US/US]; 9351 Dakota Drive, Zeeland, MI 49464 (US).

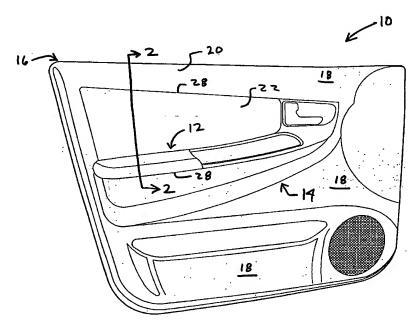
- East Wisconsin Avenue, Milwaukee, WI 53202-5306 (US).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD FOR MAKING A VEHICLE PANEL



(57) Abstract: A method of forming a panel is disclosed. The method includes forming a flexible skin (22); coupling a compressible material (24) to the skin (22); positioning the skin (22) and compressible material (24) in a mold; and forming a rigid substrate (20) around the skin (22) and compressible material (24) providing a first soft region (12) wherein the compressible material (24) is disposed between the skin (22) and the substrate (20) so that a first soft region (12) is defined by the compressible material (24).





For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.